

# A Virtual International Authority File

Presentation by

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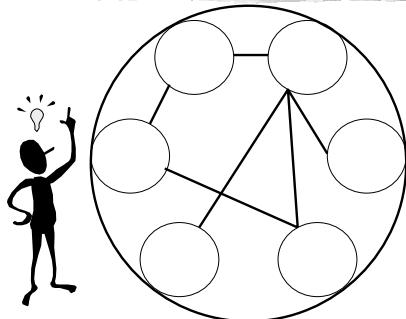
## Objectives

- Facilitate sharing to reduce cataloguing costs to libraries, museums, archives, rights management agencies, etc.
- Simplify creation and maintenance of authority records internationally
- Enable users to access information in the language, script, form they prefer

## Authority control virtues

- "Precision" in searching
- Syndetic structure of references to help navigate (the variant forms of name/title/subject/etc.)
- Displays to collocate works
- Links to forms used in particular resources
- Bring library catalogues into the mix of tools available on the Web

## Virtual International Authority File (VIAF)



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## IFLA UBC authority principles

- Each country responsible for authority headings for its own personal and corporate authors
- National authority records available for everyone to use
- Same form and structure used worldwide

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## New view of UBC

- User perspective - to display script/language(s) of one's own country
- Bibliographic agencies still responsible for control in their own countries (or region/cataloguing rules/etc.)
- Link forms established in "national" or "regional" authority files to create a virtual international authority file

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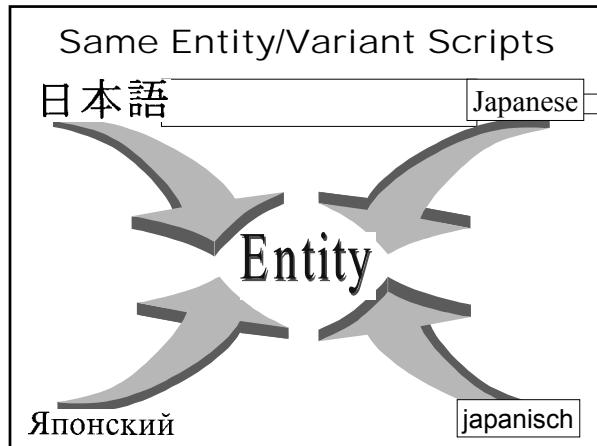
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Entities

- Crosswalks and Mappings - not always 1-1
  - Examples of differences among cataloguing rules
    - Ships
    - Events
    - Meetings of corporate bodies
    - Undifferentiated names

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Programs to facilitate future authority work

- Automatic check of heading against existing local authority file
- If not found, automatic check against "virtual" international authority file
- Display found matches for editing or reference
- Insert authorized forms into local authority record for future link

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## Switching for displays

- ♦ Library default
- ♦ User-selected preferences
  - Client set-up, "cookies," or future method
    - Language
    - Script
    - Culture (country)/spelling
      - Labor vs. Labour



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## Scenario 1 – Found locally

- Original cataloguing with match found for same entity in local authority file

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## Scenario 1 Create bibliographic record

100 1 \$a Tchaikovsky, Peter I  
245 \$a Piano concerto

**Check local authority file**

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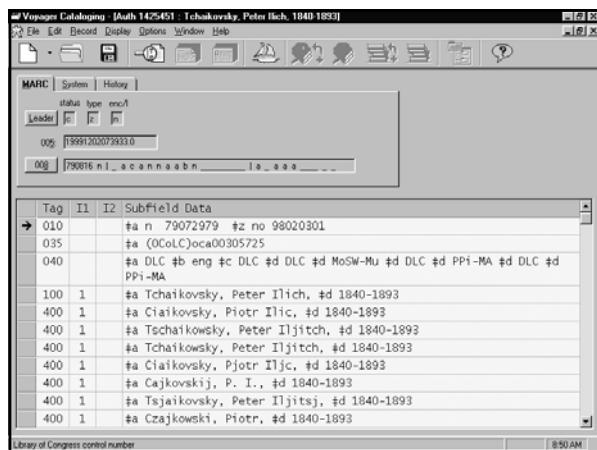
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## Scenario 1 Corrects bibliographic record

100 1 ‡a Tchaikovsky, Peter Ilich, ‡d 1840-1893  
245 ‡a Piano concerto

## Scenario 2 - Web launch

- Original cataloguing with no match found in local authority file
  - Launches Web search of virtual international authority file
    - Assumes response times/system reliability will improve in future

Scenario 2

## Create bibliographic record

100 1 \$a Tchaikovsky, Peter I  
245 \$a Piano concerto

Not found in local authority file.  
Checking VIAF.

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Your search of the Virtual International Authority File found the following match:

**RUSMARC-record**  
Маркер: 00445nx 22001453 450  
001: 10326  
005: 20001108144619.0  
100: \$a20001108arusy0103 \$a  
200: 1\$8rus\$7ca\$4Чайковский\$bvП. И.\$f1840- 1893\$gПетр  
Ильич\$4070  
200: 1\$8rus\$7ba\$aChajkovskij\$bP. I.\$f1840-1893\$gPetr  
Il'ich\$4070  
300: 0 \$aРусский композитор, ученик А.Г. Рубинштейна.  
700: 1\$310327\$8rus\$7ba\$4070  
810: \$aВсемирный биографический энциклопедический  
словарь. - М., 1998.  
801: 0\$arus\$brnb\$c20001108  
810: \$aГАК РНБ.

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Scenario 2

## Link authorities

100 1 \$a Tchaikovsky, Peter I

Create and Link? 

Yes  
 No

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Voyager Cataloging [Auth 1424541 : Tchaikovsky, Peter Il'ich, 1840-1893]

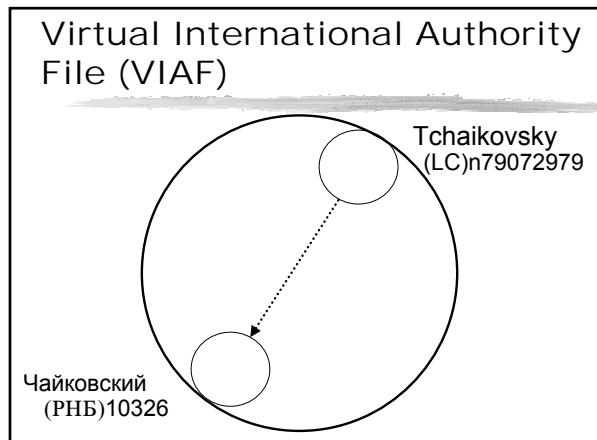
MARC | System | History |

status type encf | Leader | 008 | 008

008 | 739816 n \_ aaaaaaaa \_ aaaa \_

★ Automatically creates local authority record  
with link

Tag	I1	I2	Subfield	Data
010			‡a n	73972979
040			‡a DLC	‡b eng
100	1		‡a	Tchaikovsky, Peter Il'ich. ‡d 1840-1893
400	1		‡a	Chajkovskii, Petr Il'iich. ‡d 1840-1893
400	1		‡w	nna ‡a Chajkovskii, Petr Il'iich. ‡d 1840-1893
670			‡a	Tchaikovsky, P.I. Pianoconcerto [sic] no 1, op.23 [SR] p1988: #b Label (Peter Il'ic Chajkovskii)
700	1		‡a	Чайковский П. И. ‡d 1840-1893‡q Петр Ильич ‡f (РНБ)10326 ‡2 РНБ ‡l rus



Scenario 2

## Corrects bibliographic record

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100 1 ‡a Tchaikovsky, Peter Ilich, ‡d 1840-1893  
245 ‡a Piano concerto

## Local system - User view

User's cookie specifies Cyrillic/Russian preferred.  
Display 700 form, building on local system's authority structure

Чайковский, Петр Ильич, 1840-1893




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Tag	11	12	Subfield Data
010			#a n 80050515
035			#a (DLC)н 80050515
040			#a DLC #c DLC #d DLC #d NIC
100	0		#a Confucius
400	0		#a Konfuzius
400	0		#a K'ung Fu-tzu
400	0		#a Kongzi
400	1		#a Kong, Qiu
400	0		#a K'ung-tzu
400	1		#a K'ung, Ch'iu
400	0		#a K'oshi
400	0		#a Konfu'tsi'i
400	0		#a Konfuzius
400	0		#a Kung Fu
400	1		#a K'ung, Fu-tzu
400	0		#a Confucio
400	0		#a Конфуций
400	0		#a 孔夫子
400	0		#a 孔子
400	0		#a 孔丘
400	0		#a こうし
400	0		#a こうじ
400	0		#a 孔子
670			#a Jakobs, P. M. Kritik an Lin Piao und Konfuzius, c1983; #b t.p.
670			#a Konfu'tsi'i, 1993; #b t.p., verso (551-479 B.C.)
670			#a His Gespr'ache (Lun y u), 1910; #b t.p. (Kungfutse)
670			#a Web connectio
700	0		#a 孔夫子 #5 HKCAN

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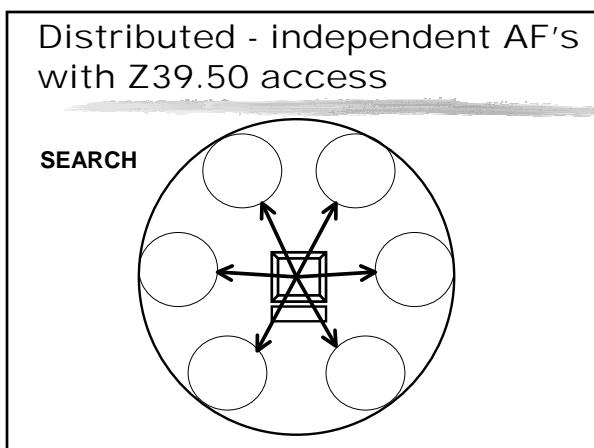
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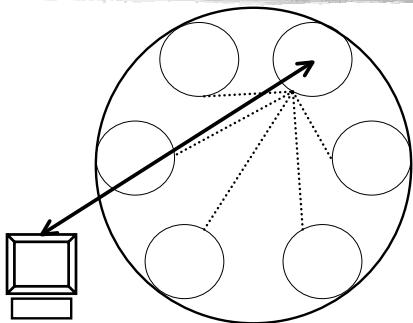
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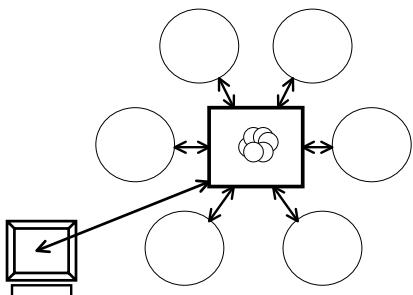
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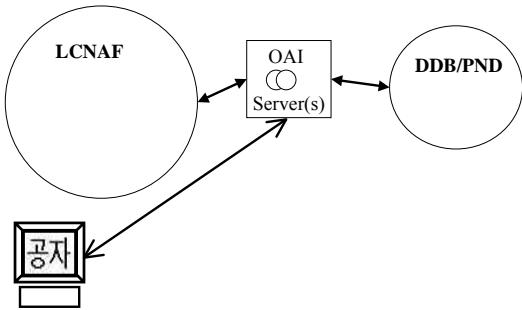
Central Link



Centralized - Union Authority File (OAI Model)



VIAF Proof of Concept  
DDB/LC/OCLC



## Matching retrospective files

- One time project
- Matching algorithms, such as those developed by Ed O'Neill and others at OCLC
- Links
  - Text strings
  - Control numbers

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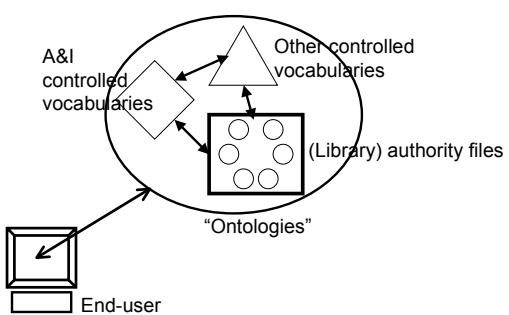
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## Semantic Web Building Blocks



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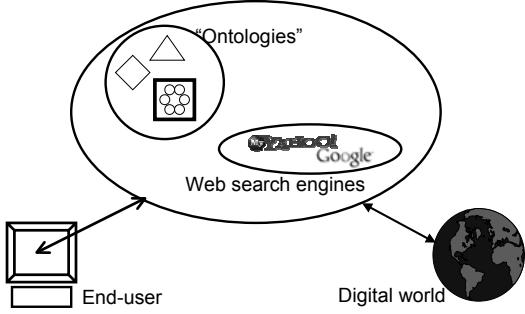
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## Semantic Web Building Blocks



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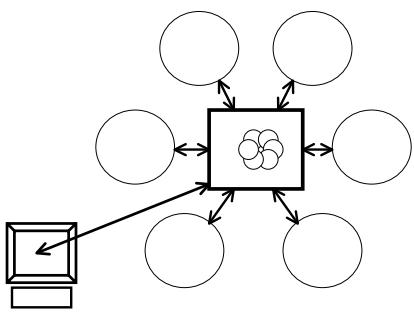
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## Virtual International Authority File (VIAF)



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